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SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANTS: SUZANNE L. TOPALIAN; STEVEN A. ROSENBERG; PAUL F. ROBBINS
- (ii) TITLE OF INVENTION: MHC-CLASS II RESTRICTED MELANOMA ANTIGENS AND THEIR USE IN THERAPEUTIC METHODS
- (iii) NUMBER OF SEQUENCES: 38
- (iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
(B) STREET: 345 PARK AVENUE
(C) CITY: NEW YORK
(D) STATE: NEW YORK
(E) COUNTRY: USA
(F) ZIP: 10154
- (v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: FLOPPY DISK
(B) COMPUTER: IBM PC COMPATIBLE
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: ASCII
- (vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: 08/533,895
(B) FILING DATE: 26 SEPT 1995
(C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: FEILER, WILLIAM S.
(B) REGISTRATION NUMBER: 26,728
(C) REFERENCE/DOCKET NUMBER: 2026-4205
- (ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: (212) 758-4800
(B) TELEFAX: (212) 751-6849
(C) TELEX: 421792

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Gln Asn Ile Leu Leu Ser Asn Ala Pro Leu Gly Pro
1 5 10

Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Asn Ile Leu Leu Ser Asn Ala Pro Leu Gly Pro Gln
1 5 10

Phe Pro

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Gln Asn Ile Leu Leu Ser Asn Ala Pro Val Gly Pro
1 5 10

Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Gln Asn Ile Leu Leu Ser Asn Val Pro Val Gly Pro
1 5 10

Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Gln Asn Ile Leu Leu Ser Asn Val Pro Leu Gly Pro
1 5 10

Gln Phe Pro
15

B1
(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Asp Tyr Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser
1 5 10

Phe Gln Asp
15

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Asp Tyr Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser
1 5 10

Ser Gln Asp
15

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Asp Gln Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser
1 5 10

Phe Gln Asp
15

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Asp Phe Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser
1 5 10

Phe Gln Asp
15

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Asp Tyr Ser Phe Leu Gln Asp Ser Asp Pro Asp Ser
1 5 10

Phe Gln Asp
15

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Asp Tyr Ser Tyr Leu Gln Asp Ser Val Pro Asp Ser
1 5 10

Phe Gln Asp
15

B1
(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 13
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Ser Tyr Leu Gln Asp Ser Val Pro Asp Ser Phe Gln
1 5 10

Asp

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Tyr Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser Phe
1 5 10

Gln Asp

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 13
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser Phe Gln
1 5 10

Asp

(2) INFORMATION FOR SEQ ID NO:15:

- B'*
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 9
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Xaa Leu Leu Xaa Asn Xaa Xaa Leu Xaa
1 5

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 9
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Xaa Leu Gln Xaa Ser Xaa Xaa Asp Xaa
1 5

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Gln Asn Gln Leu Leu Ser Asn Ala Pro Leu Gly Pro
1 5 10
Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

B1
Gln Asn Phe Leu Leu Ser Asn Ala Pro Leu Gly Pro
1 5 10
Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Gln Asn Val Leu Leu Ser Asn Ala Pro Leu Gly Pro
1 5 10
Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Gln Asn Ile Gln Leu Ser Asn Ala Pro Leu Gly Pro
1 5 10
Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:21:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

81
Gln Asn Ile Phe Leu Ser Asn Ala Pro Leu Gly Pro
1 5 10
Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Gln Asn Ile Val Leu Ser Asn Ala Pro Leu Gly Pro
1 5 10
Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

Gln Asn Ile Leu Gln Ser Asn Ala Pro Leu Gly Pro
1 5 10

Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

B1
Gln Asn Ile Leu Phe Ser Asn Ala Pro Leu Gly Pro
1 5 10

Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Gln Asn Ile Leu Val Ser Asn Ala Pro Leu Gly Pro
1 5 10

Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:26:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

Gln Asn Ile Leu Leu Ser Asn Gln Pro Leu Gly Pro
1 5 10

Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

Gln Asn Ile Leu Leu Ser Asn Ala Gln Leu Gly Pro
1 5 10

Gln Phe Pro
15

B1
(2) INFORMATION FOR SEQ ID NO:28:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Gln Asn Ile Leu Leu Ser Asn Ala Val Leu Gly Pro
1 5 10

Gln Phe Pro
15

(2) INFORMATION FOR SEQ ID NO:29:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

Gln Asn Ile Leu Leu Ser Asn Ala Pro Gln Gly Pro
1 5 10

- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

Ser Asn Ala Pro Leu Gly Pro Gln Phe Pro Phe
1 5 10
Thr Gly Val Asp
15

(2) INFORMATION FOR SEQ ID NO:34:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15
 - (B) TYPE: AMINO ACID
 - (C) STRANDEDNESS: UNKNOWN
 - (D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

Asp Tyr Ser Gln Leu Gln Asp Ser Asp Pro Asp Ser
1 5 10
Phe Gln Asp
15

(2) INFORMATION FOR SEQ ID NO:35:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15
 - (B) TYPE: AMINO ACID
 - (C) STRANDEDNESS: UNKNOWN
 - (D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

Asp Tyr Ser Tyr Gln Gln Asp Ser Asp Pro Asp Ser
1 5 10
Phe Gln Asp
15

(2) INFORMATION FOR SEQ ID NO:36:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15
 - (B) TYPE: AMINO ACID
 - (C) STRANDEDNESS: UNKNOWN

(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

Asp Tyr Ser Tyr Phe Gln Asp Ser Asp Pro Asp Ser
1 5 10
Phe Gln Asp
15

(2) INFORMATION FOR SEQ ID NO:37:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 12
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

Tyr Leu Gln Asp Ser Asp Pro Asp Ser Phe Gln Asp
1 5 10

(2) INFORMATION FOR SEQ ID NO:38:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 11
(B) TYPE: AMINO ACID
(C) STRANDEDNESS: UNKNOWN
(D) TOPOLOGY: UNKNOWN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

Leu Gln Asp Ser Asp Pro Asp Ser Phe Gln Asp
1 5 10



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